

Grade 4 · Factors, Multiples, Primes and Composites · Test

Common Core 4.OA.B.4 · mathovore.fr

Name: _____ Date: ____/____/____ Score: _____

This test covers factor pairs, multiples, and prime and composite numbers from standard 4.OA.B.4. It has 9 questions worth 20 points, and a student should finish in about 45 minutes. Show your lists and your work.

Test information

- **Grade:** Grade 4
- **Chapter:** Factors, Multiples, Primes and Composites
- **Common Core:** 4.OA.B.4
- **Time:** 45 minutes
- **Total:** 20 points (Question 1: 2 pts; Question 2: 2 pts; Question 3: 2 pts; Question 4: 3 pts; Question 5: 2 pts; Question 6: 2 pts; Question 7: 2 pts; Question 8: 3 pts; Question 9: 2 pts)

Question 1: Factor pairs of 48 (2 points)

- Write all the factor pairs of 48. (1 point)
- Is 9 a factor of 48? Explain. (1 point)

Question 2: Multiples of 7 (2 points)

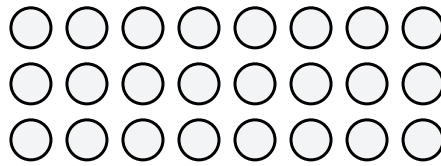
- Write the first 6 multiples of 7. (1 point)
- Is 91 a multiple of 7? Show why. (1 point)

Question 3: Prime or composite (2 points)

- Tell whether 23 and 39 are prime or composite. (1 point)
- Explain why 2 is the only even prime number. (1 point)

Question 4: Array of dots (3 points)

The array has some number of dots arranged in rows.



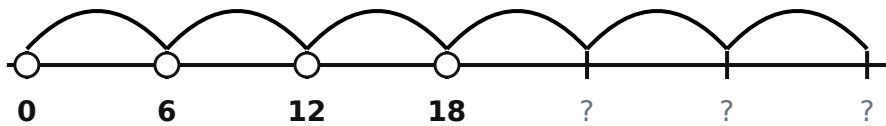
3 rows of 8 = 24

An array of dots.

- Write the multiplication sentence that the array shows. (1 point)
- Write the other factor pairs of that number. (2 points)

Question 5: Number line multiples (2 points)

The marks on the number line are multiples of the same number.



A number line with equal hops.

- Write the three missing numbers. (1 point)
- Is 54 one of the multiples of this number? Explain. (1 point)

Question 6: Find the primes (2 points)

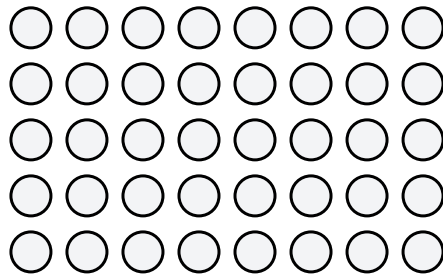
Circle every prime number in this list: 51,53,57,59,61,63,67.

Question 7: Mystery number (2 points)

A number is a multiple of 9, is odd, and is between 60 and 80. Find the number and show how you know.

Question 8: Rows of students (3 points)

Forty students line up for a photo in equal rows. The picture shows one way.



5 rows of 8 = 40

Students lined up in rows.

- a. Which factor pair of 40 does the picture show? (1 point)
- b. Write all the other factor pairs of 40. (2 points)

Question 9: Saving each week (2 points)

Noah saves \$8 every week and starts with nothing.

- a. How much does he have after 7 weeks? (1 point)
- b. Can he have exactly \$90 at the end of some week? Explain. (1 point)